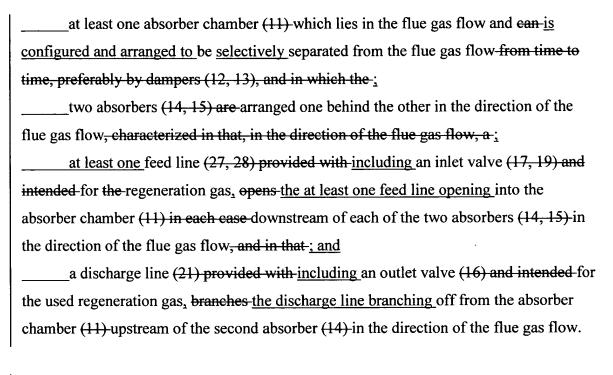
1. (Currently Amended) A method of operating a flue gas purifying plant
(10) having at least one absorber chamber (11) in which, the method comprising:
simultaneously oxidizing CO and NO are oxidized simultaneously by means of
with a catalyst in a first absorber (15) according to the SCONOx principle, and absorbin
the resulting NO <sub>2</sub> is absorbed on the catalyst surface, in which, furthermore,;
oxidizing SO <sub>2</sub> is oxidized by means of with a catalyst in a second absorber (14)
connected upstream of the first absorber (15)-according to the SCOSOx principle, and
absorbing the resulting SO <sub>3</sub> is absorbed on the catalyst surface, in which method:
separating the absorber chamber (11) is separated from the flue gas flow in
regularly recurring regeneration cycles, and is regenerated by means regenerating the
absorber chamber with of a regeneration gas containing hydrogen-and/or, hydrogenous
compounds, or both, the two absorbers (14, 15) of the absorber chamber (11) being
regenerated one after the other, characterized in that;
wherein regeneration comprising flowing gas flows through the two absorbers
(14, 15) against the direction of the flue gas flow during the regeneration.
2. (Currently Amended) The method as claimed in claim 1, characterized in
that-comprising:
feeding the regeneration gas, in the direction of the flue gas flow, is in each case
fed downstream of the absorbers (14, 15); and is discharged
discharging the regeneration gas upstream of the second absorber (14).
3. (Currently Amended) The method as claimed in either of claims 1 or
2Claim 1, eharacterized in that, during the regeneration phase, wherein regenerating
comprises regenerating the second absorber (14) is regenerated first and then the first
absorber (15) is regenerated second.
4. (Currently Amended) An apparatus <u>useful</u> for <del>carrying out the method as</del>
claimed in claim 1 flue gas purification, comprising:



5. (Currently Amended) The apparatus as claimed in claim 4, eharacterized in that further comprising:

a reformer (20) is provided for producing configured and arranged to produce the regeneration gas, to which reformer (20) natural gas (22) or other hydrocarbons and steam (23) are fed, and in that the at least one feed lines (27, 28) are line being connected to the outlet of the reformer (20).

- 6. (New) The apparatus as claimed in Claim 4, further comprising dampers configured and arranged to separate the at least one absorber chamber from the flue gas flow.
- 7. (New) The apparatus as claimed in Claim 5, further comprising: a source of natural gas or hydrocarbons in communication with the reformer; and a source of steam in communication with the reformer.